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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/757,720	01/15/2004	Harm M. Deckers	9369-289	3856
1059 BERESKIN AN	7590 08/14/200 ND PARR	EXAMINER		
40 KING STREET WEST			HORNING, MICHELLE S	
BOX 401 TORONTO, ON M5H 3Y2		ART UNIT	PAPER NUMBER	
CANADA			1648	
			MAIL DATE	DELIVERY MODE
			08/14/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/757,720	DECKERS ET AL.		
Office Action Summary	Examiner	Art Unit		
	MICHELLE HORNING	1648		
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet with	the correspondence address		
A SHORTENED STATUTORY PERIOD FOR R WHICHEVER IS LONGER, FROM THE MAILIN - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communication of the provided for reply is specified above, the maximum statutory provided to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	IG DATE OF THIS COMMUNIC. FR 1.136(a). In no event, however, may a report. Deriod will apply and will expire SIX (6) MONT statute, cause the application to become ABA	ATION. ly be timely filed HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).		
Status				
1) ☐ Responsive to communication(s) filed on 2a) ☐ This action is FINAL . 2b) ☐ 3) ☐ Since this application is in condition for all closed in accordance with the practice uncondition.	This action is non-final. owance except for formal matte			
Disposition of Claims				
4) ☐ Claim(s) 1-7 is/are pending in the applicate 4a) Of the above claim(s) is/are wite 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-7 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and application Papers	hdrawn from consideration.			
9) The specification is objected to by the Exa 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the co 11) The oath or declaration is objected to by the	accepted or b) objected to be the drawing(s) be held in abeyand prection is required if the drawing(s	e. See 37 CFR 1.85(a).) is objected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119		5 10 5 10 10 10 10 10 10 10 10 10 10 10 10 10		
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-94) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	8) Paper No(s).	mmary (PTO-413) Mail Date ormal Patent Application		

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DETAILED ACTION

This office action is responsive to communication filed 5/14/2008. The status of the claims is as follows: claims 1-7 are under current examination.

The following have been withdrawn due to amendments:

1. Objection to the Specification; and

2. 35 USC 112, 2nd paragraph.

Claim Rejections - 35 USC § 102-MAINTAINED

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Parmenter et al (1995).

Claims 1-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Moloney.

Response to Arguments

Applicant's arguments filed 5/14/2008 have been fully considered but they are not persuasive. Applicant provides the following arguments regarding both rejections above: 1. both references do not teach step (d), 2. both references do not teach step (e) and 3. Parmenter et al does not teach an antigen. The arguments are discussed individually below.

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Step (d) comprises washing the oil bodies to obtain washed oil boy preparation comprising the antigen. As noted in the previous action (page 5), the instant specification defines the term "washing the oil bodies" as any process that removes cellular contaminants or undesirable properties and such methods may include separation methods such as centrifugation. Parmenter et al provides a step of centrifugation in order to remove insoluble fractions (see Isolation and extraction of seed proteins, page 1170 of this reference). With respect to the teachings of Moloney, this reference provides the following recitation (Paragraph 5, Detailed Description):

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The use of an oil body protein as a carrier or targeting means provides a simple mechanism to recover proteins. The chimeric protein associated with the oil body or reconstituted oil body fraction is separated away from the bulk of cellular components in a single step (such as centrifugation size exclusion or floatation); the protein is also protected from degradation during extraction as the separation also reduces contact of the proteins with non-specific proteases. Thus, both references meet the limitation of step (d).

Step (e) comprises "formulating the washed oil bodies associated with the antigen into an immunogenic formulation". Note that obtaining an immunogenic formulation is not an active step and while both references achieve washed oil bodies associated with the antigen following the claimed steps, this would lead to the same result. An "immunogenic" characteristic is considered an inherent property and all

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foreign materials introduced into a body would induce an immune response. In the claimed methods, the formulation is not in contact with any immune system and thus, an "immunogenic" formulation is further characterized as an intended use for the formulation. Regarding the term "antigen" in step (e), Parmenter et al provides the incorporation of a recombinantly produced protein into the oil body, and this protein meets the broad definition for "antigen" provided by the Applicant. This is discussed further below.

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Applicant contends that Parmenter et al does not teach using an antigen. As clearly discussed in the previous action (page 5), the instant specification defines an antigen as "any molecule to which one wishes to elicit an immune response" (see specification, paragraph 160). Further, paragraph 129 provides the following teaching: "The scope of the invention is not limited by the type of antigen used or the means by which the antigen is produced. Antigens may consist of peptides, proteins, carbohydrate or synthetically produced chemicals. The antigen may be similar or identical to the natural molecule against which an immune response is desired or may simply resemble the natural molecule sufficiently to be able to induce a response against the natural molecule. Due to the wide range of possibilities for production and use of antigens it is impossible to provide a comprehensive list of potential antigens that could be included in immunizations with oil bodies and thus only examples that may be reflective of the type of antigens that could be considered are provided." Thus, an antigen can be anything; Parmenter et al successfully provides a recombinantly produced protein into the oil body, meeting the definition for "antigen" as defined by the specification.

Conclusion

NO CLAIM IS ALLOWED. No argument is found persuasive.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHELLE HORNING whose telephone number is (571)272-9036. The examiner can normally be reached on Monday-Friday 8:00-5:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bruce Campell can be reached on 571-272-0974. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Michelle Horning/ Examiner, Art Unit 1648

/Zachariah Lucas/ Primary Examiner, Art Unit 1648